ž.	٠,			UTAH OI	L AND GAS CON	SERVATION C	OMMISSIO	N		_
REMARKS:	WELL LOG_	EL	ECTRIC LOGS	FILE X	WATER SANDS_	LOCAT	ION INSPECTE	ED	SUB REPORT/abd.	,
										
								•		
	-:									
DATE FILED		1-30-85	<u> </u>							
LAND: FEE &	PATENTED	STATE	LEASE NO.		Pt	JBLIC LEASE NO.			INDIAN	14-20-603-40
DRILLING APP	ROVED:	2-4-85	- OIL							
SPUDDED IN:										
COMPLETED:			PUT TO PROD	DUCING:	(A.P.)					
INITIAL PROD	UCTION:									
GRAVITY A.P.I									<u> </u>	
GOR.										
PRODUCING 2	ZONES			•						
TOTAL DEPTH	d:									
WELL ELEVAT	10)	46391	·gr							
DATE ABANDO		lips	dication	7 Rest	indec	3.098	810			
FIELD:		ER ANEI	TH				 			
UNIT.		MESA								
COUNTY:	SAN J	UAN								
WELL NO.	WHITE	MESA U	NIT #27-31					API #	43-037-31142	
LOCATION	650'		FT. FROM (N) (S) LINE,	2000	FEL	FT. FROM (E) (W)	LINE.	NW NE		c. 27
.						***************************************				
TWP.	RGE.	SEC.	OPERATOR			TWP.	RGE	SEC.	OPERATOR	
		•	•		~	41\$	24E	27	SUPERIOR OIL (COMPANY

Form 3160-3 (November 1983) (formerly 9-331C)

BIGNED

PERNIT NO.

APPROVED BY __

CONDITIONS OF APPROVAL, IF ANY:

ce for Federal or State office use)

UNITED STATES DEPARTMENT OF THE INTERIOR

Other instructions on reverse side)

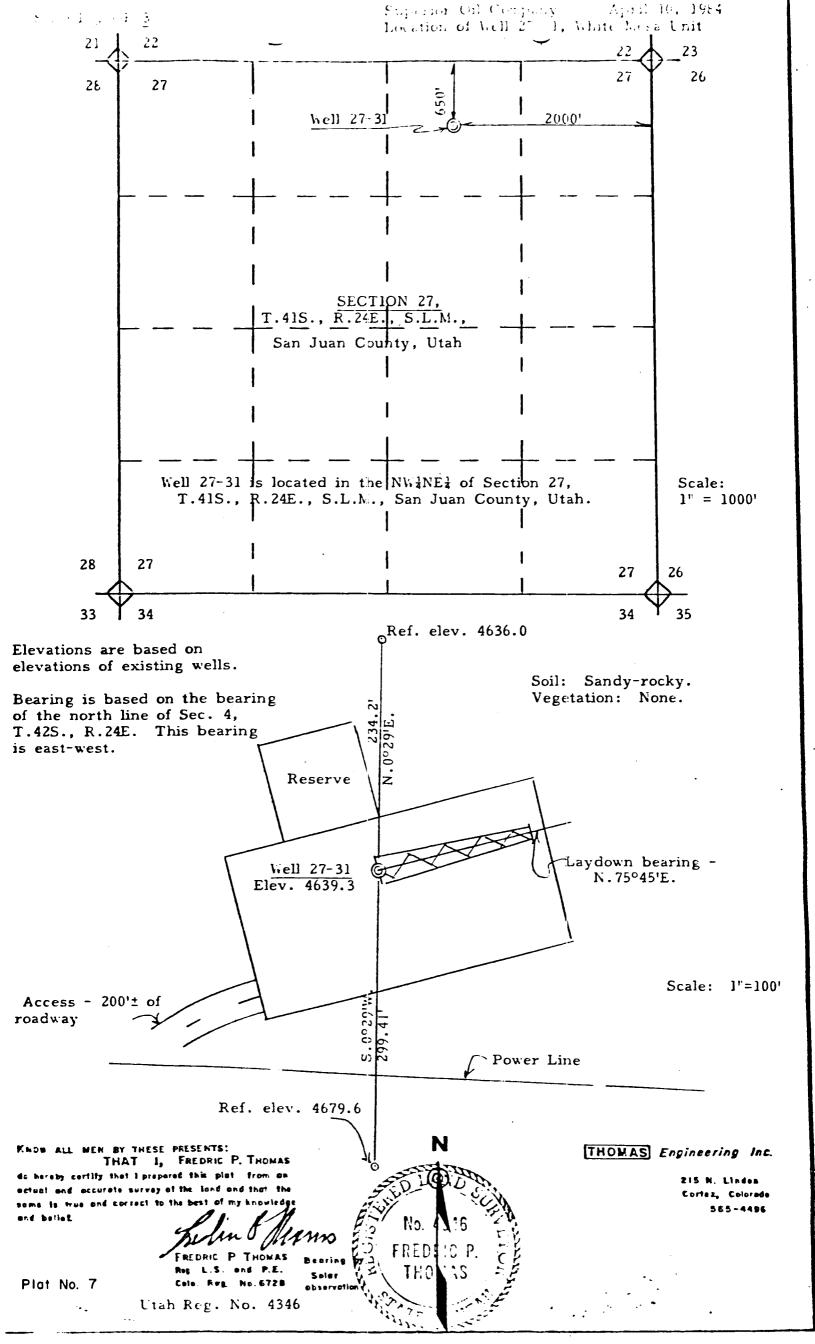
Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

12-14-84

	RTMENT OF THE INTER		5. LEASE DESIGNATION AND SERIAL NO.
	REAU OF LAND MANAGEMEN		14-20-603-409 6. IF INDIAN, ALLOTTEB OR TRIBE HAME
APPLICATION FOR P	ERMIT TO DRILL, DEEP	EN, OR PLUG BA	CK NAVAJO
1a. TIPE OF WORK DRILL	DEEPEN 🗌	PLUG BACK	7. UNIT AGREEMENT NAME
b. TYPE OF WELL	· .	INGLE MULTIPLE	WHITE MESA UNIT
OIL WELL GAS WELL 2. NAME OF OPERATOR		ONE SONE	8. FARM OR LEASE NAME
SUPERIOR OIL COMPANY	,		9. WELL NO.
S. ADDRESS OF OPERATOR			 #27 - 31
P.O.DRAWER 'G', CORT	TEZ. COLORADO 81327		10. PIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report location At surface	clearly and in accordance with any	State requirements.*)	GREATER ANETH
650 FNL, 2000' FEL,	, SEC. 27 NWNE		11. SBC., T., R., M., OR BLN. AND SURVEY OR AREA
At proposed prod. sone Same			SEC. 27, T415, R24E SL
14. DISTANCE IN MILES AND DIRECTION	N FROM NEAREST TOWN OR POST OFFIC	;B*	12. COUNTY OR PARISE 18. STATE
6 miles southeast of	f Montezuma Creek, Utah	1	SAN JUAN UTAH
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST	16. N	O. OF ACRES IN LEASE 1	7. NO. OF ACRES ASSIGNED TO THIS WELL
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if		1767.92	40
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPONENT OR APPLIED FOR, ON THIS LEASE, FT.		5620 DEPTH	0. ROTARY OR CABLE TOOLS ROTARY
21. ELEVATIONS (Show whether DF, RT,	GR, etc.)	O D po	22. APPROX. DATE WORK WILL START
Ungraded ground leve	1 4639'	Υ	April. 1985
23.	PROPOSED CASING AN	D CEMENTING PROGRAM	
SIZE OF HOLE SIZE OF	CASING WEIGHT PER POOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2" 13-3/8'	' 54.5# K-55	120! 1	77 ft ³ cmt to surface
12-1/4" 9-5/8!			76 ft ³ cmt to surface
8-3/4" 7"	23# K-55	5620' 5	90 ft ³ cmt or sufficient to cover zones of interest
formations. If pr and abandon as per	roductive, we will run	casing and comple f Utah regulations	JAN 30 1925
DATA BY:	2/4/85 Le F B21		DIVISION OF L. GAS & MINING
IN ABOVE SPACE DESCRIBE PROPOSED Prone. If proposal is to drill or deep preventer program, if any.	OGRAM: If proposal is to deepen or en directionally, give pertinent data	plug back, give data on prese	ent productive some and proposed new productive measured and true vertical depths. Give blowout

*See Instructions On Reverse Side

Petroleum Engineer



SUPPLEMENT TO FORM 3160-3

WELL: White Mesa Unit #27-31

ELEVATION: Ungraded ground level 4639'.

SURFACE FORMATION: Dakota

ESTIMATED FORMATION	TOPS:	<u>Formation</u>	Тор
		Chinle	1337'
		DeChelly	2449'
		Organ Rock	2680'
		Hermosa	43971
		Ismay	5239'
		Lower Ismay	5352'
		Gothic Shale	5388'
		Desert Creek	5406'
		Chimney Rock Shale	5568'
		TD	5620'

WATER BEARING FORMATION:

Fresh water is expected to be encountered

intermittently from 120' to 1337'.

HYDROCARBON BEARING FORMATION: Oil & gas could be encountered in the Ismay

and Desert Creek from 5239' to 5568'.

MUD PROGRAM:

Surface to 100' - spud mud.

100' to 1337' - fresh water.

1337' to 2600' - fresh water/gel/polymer.

2600' to 5150' - lignosulfonate mud system.

5150' to TD - lignosulfonate mud system. Water loss controlled to 15 cc or less and weighted with barite as necessary.

CASING PROGRAM:		Depth	Hole Size	<u>O. D.</u>	Weight	Grade	Туре
	Conductor Surface Production	0-1390'	12-1/4"	13-3/8" 9-5/8" 7"	54.5# 36# 23#	K-55 K-55 K-55	ST&C ST&C ST&C

ALL CASING WILL BE NEW.

CEMENT PROGRAM:

Conductor - cement to surface w/ 150 sx (177 ft^3) Class 'B' + 2% CaCl.

Surface - cement to surface w/ $380 \text{ sx } (699 \text{ ft}^3)$ Lite + 10#/sk Gilsonite + .4% LoDense + 5#/sk LCM & $150 \text{ sx } (177 \text{ ft}^3)$ Class 'B' +2% CaCl.

Production - 500 sx (590 ft 3) Class 'B' + 1.7% D-29 (antimigration additive) + .3% R-5 (retarder). Est TOC: 4200'.

PRESSURE CONTROLS:

Blowout preventer equipment will be 10" Series 90() (3000 psig working pressure) with blind rams and drill pipe rams hydraulically and manually controlled. The BOP's will be tested to 1500 psig and actuated daily to insure proper functioning. The schematic of the pressure control equipment can be seen on the attached diagram.

LOGGING PROGRAM:

DIL/SFL: TD to 1390'.

CNL/FDC: TD to 4300'.

MICROLOG: TD to 4300'.

HIGH PRESSURE AND/OR H₂S GAS: High pressure gas or gas containing detectable H₂S are not anticipated while drilling this well.

DRILL STEM TESTS:

None anticipated at this time.

CORING:

None anticipated at this time.

ANTICIPATED STARTING DATE: April, 1985.

SUPERIOR OIL

August 16, 1984

Mr. Mat N. Millenbach Area Manager U. S. Department of Interior Bureau of Land Management Caller Service 4104 Farmington, New Mexico 87499

> Re: Surface Use Development Plan Proposed Well White Mesa Unit #27-31 650' FNL, 2000' FEL Section 27, T41S, R24E SLM San Juan County, Utah

Gentlemen:

We submit the following Application with Plats for permission to drill the referenced well.

1. The <u>existing roads</u> are shown on the attached Plat No. 3. Direction to the location from <u>Montezuma Creek</u>, Utah are as follows:

From the San Juan River Bridge at Montezuma Creek go south on the black top 0.4 miles to the Red Mesa Highway. Go southeast 2.5 miles to a dirt road on the left. Proceed southeast on the gravel road 2.6 miles to the location on the right. (Refer to Plat No. 3).

- 2. An access road will be constructed approximately 150' long. (Refer to Plat No. 3).
- 3. Location of existing wells within one mile (refer to Plat No. 5).
 - a. Water wells none.
 - b. Abandoned wells 6.
 - c. Temporarily abandoned wells -10.
 - d. Disposal wells none.
 - e. Drilling wells none.
 - f. Producing wells 8.
 - q. Shut-in wells none.
 - h. Injection wells -none.

SUPERIOR OIL

- 4. There is one existing producing facility owned and controlled by Superior Oil within a one-mile radius. A 2,500' flowline will be laid northeast from the proposed location to the facility. (Refer to Plat No. 4).
- 5. Location and type of water supply will be from Superior's McElmo Creek Unit fresh water supply wells near the San Juan River (SW 1/4 Sec. 17, T41S, R25E SLM). Water will be trucked to the location over existing roads and access road to be built.
- 6. Source of construction materials necessary to build the drilling pad will be obtained from the location. If gravel is needed to maintain existing road or to top off the drilling pad it will be trucked from a privately owned gravel pit 0.25 miles west of Montezuma Creek.
- 7. Methods of handling waste disposal is to collect it in an earthern pit 6' to 8' deep with steep sides and fenced with small mesh wire and located near the mud pit. The reserved mud pit will be located on the south side of the location. When drilling operations are complete the mud pits will be allowed to dry and then backfilled and leveled to the contour of the original landscape. The reserve pit will be fenced on three sides while drilling and on the fourth side as soon as the drilling rig moves out. OSHA approved chemical toilets will be provided and maintained. (Refer to Plat No. 6 & 7).
- 8. Ancillary facilities. No permanent campsites or airstrips will be constructed. Two small portable trailer houses for Superior's and contractors drilling Supervisory personnel will be on the location while drilling the well. (Refer to Plat No. 6).
- 9. Wellsite layout. The location and position of all drilling equipment is shown on the attached plat. There is also a plat attached showing the cross section diagram of the drill pad including all cuts and fills. Material from the location will be used for pad elevation. (Refer to Plats No. 6, 7, 8, & 9).
- 10. Plans for restoration of the surface. Upon completion of drilling operations the site and unused portion of the access road will be restored to the contour of the original landscape and seeded in accordance with the BIA requirements.
- 11. Surface land is owned by the Navajo Tribe and is used primarily for grazing. Vegetation is sparse desert type ground cover. There are no Indian habitations or artifacts in the immediate vicinity of the access road, flowline or drill site.

SUPERIOR OIL

12. Superior's representatives:

> Permitting - Wm. H. Edwards Construction - C. D. Likes Drilling - J. E. Gagneaux Production - D. C. Collins Mailing address - P. O. Drawer 'G', Cortez, Colorado 81321 Telephone (24 hours) - 303-565-3733 Dirt Contractor - Perry McDonald Construction P. O. Box 1750, Cortez, Colorado 81321 Telephone - 303-565-3656

Drilling Contractor - not determined at this time.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by the SUPERIOR OIL COMPANY and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

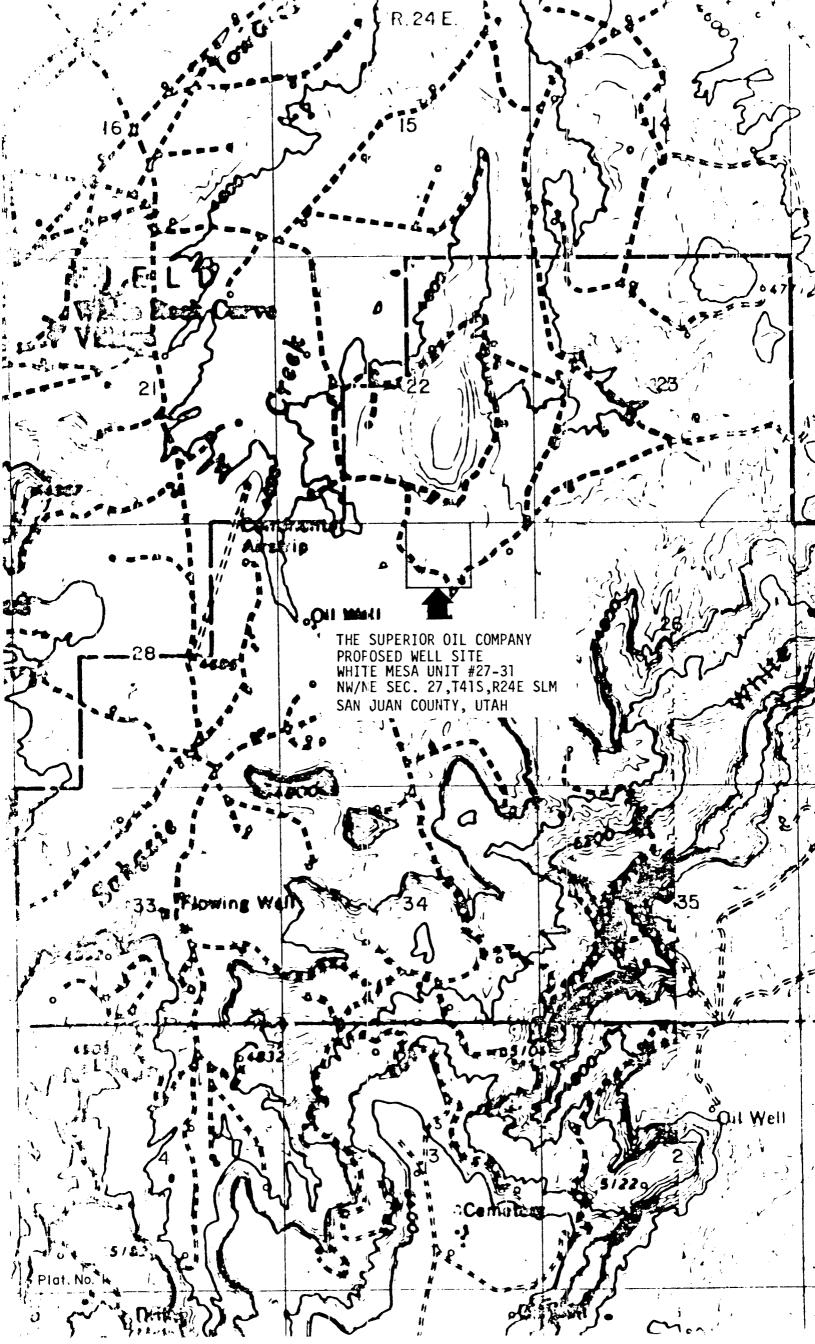
Respectfully submitted,

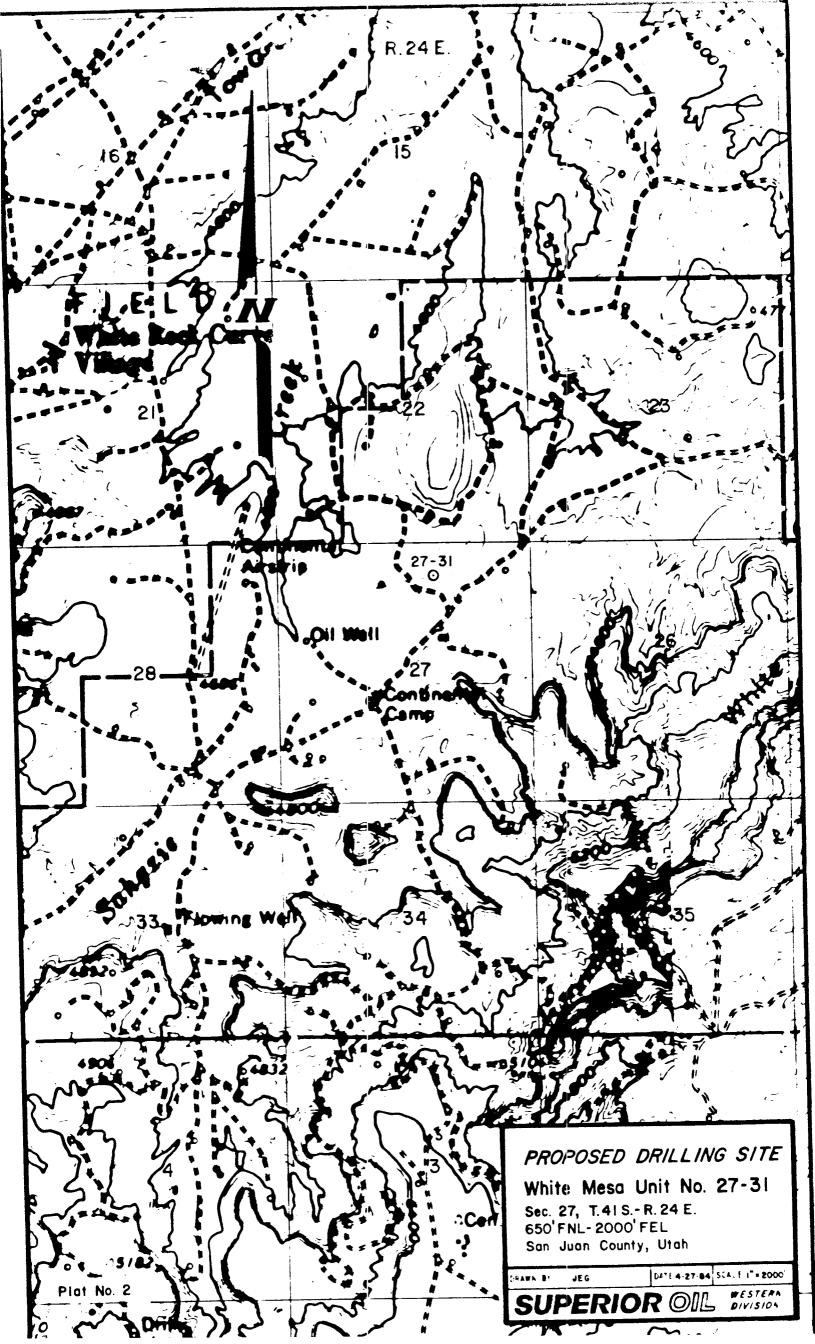
SUPERIOR OIL COMPANY

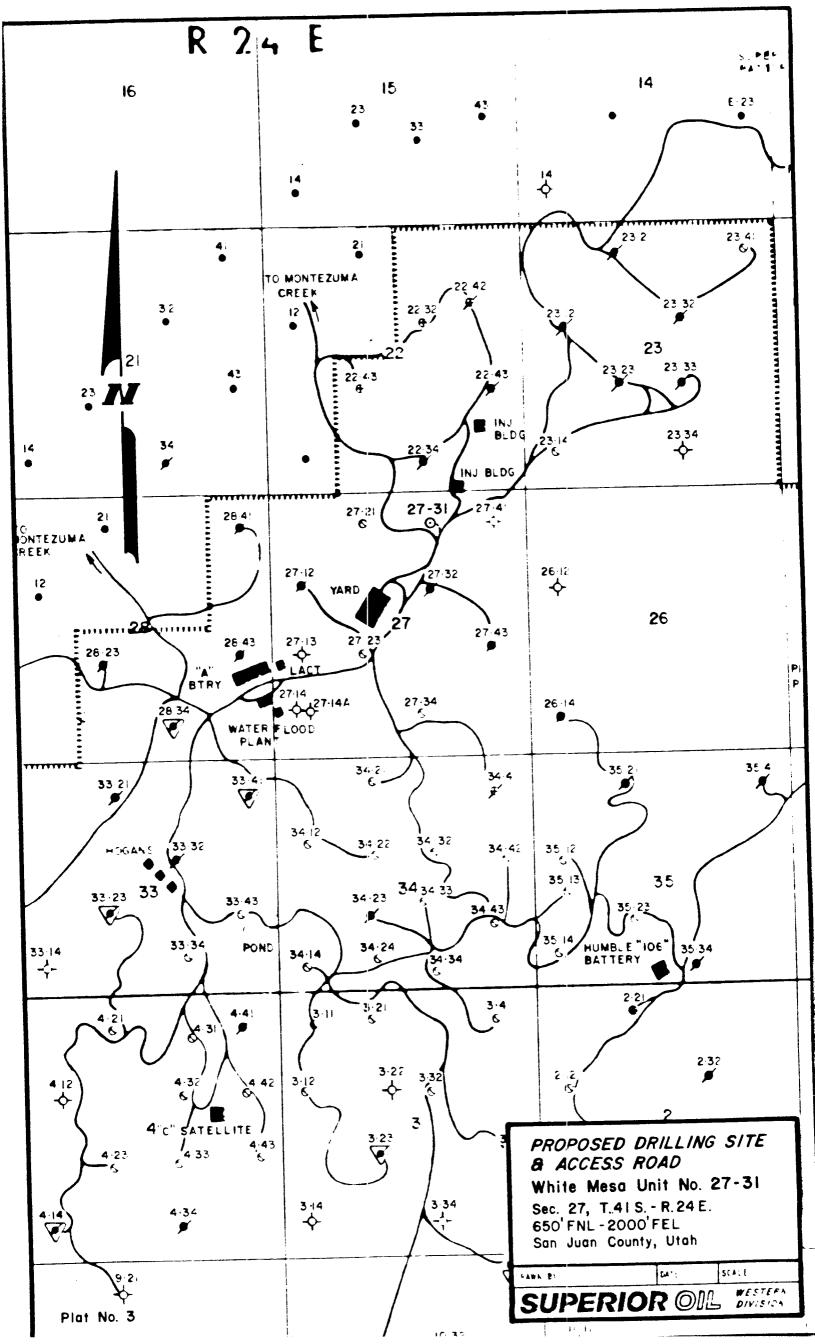
Wm. H. Edwards

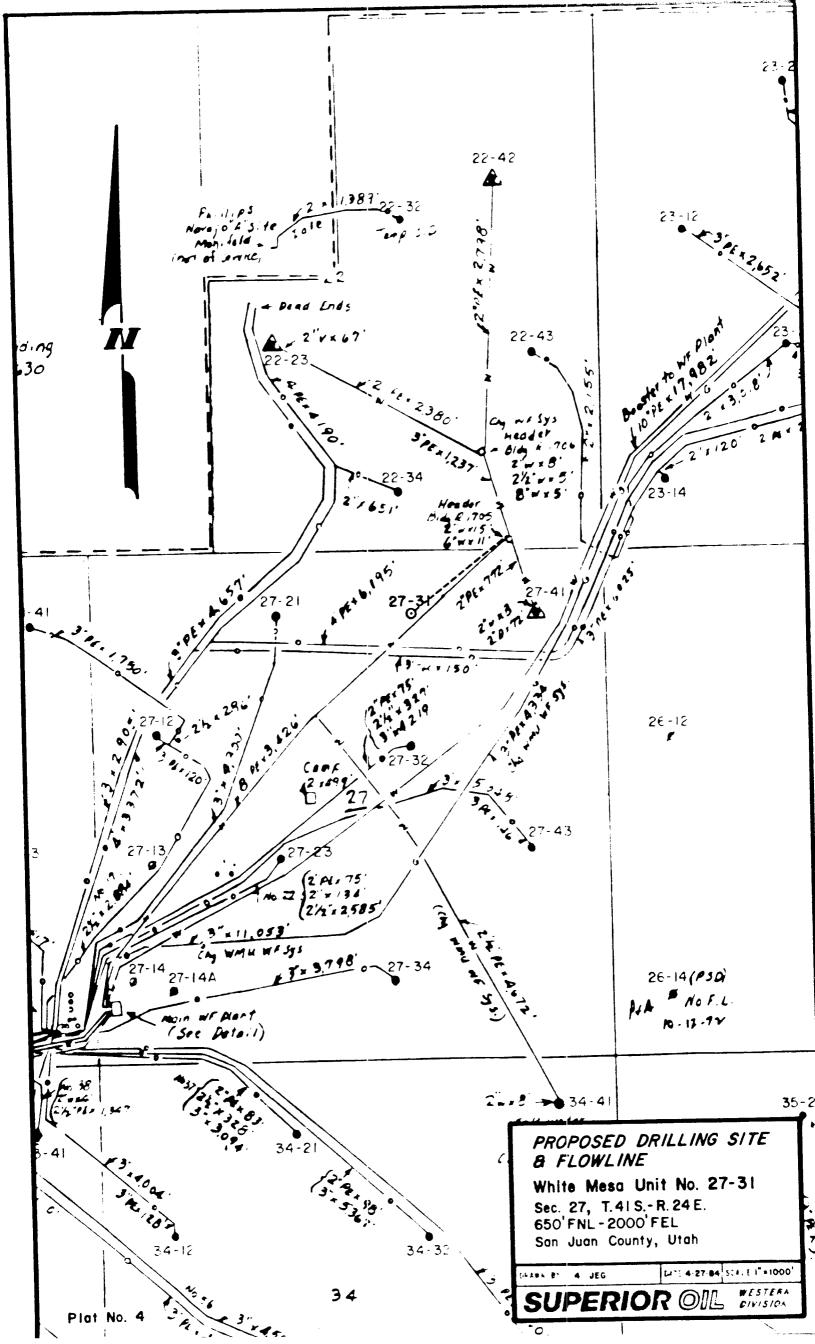
Special Projects Superintendent

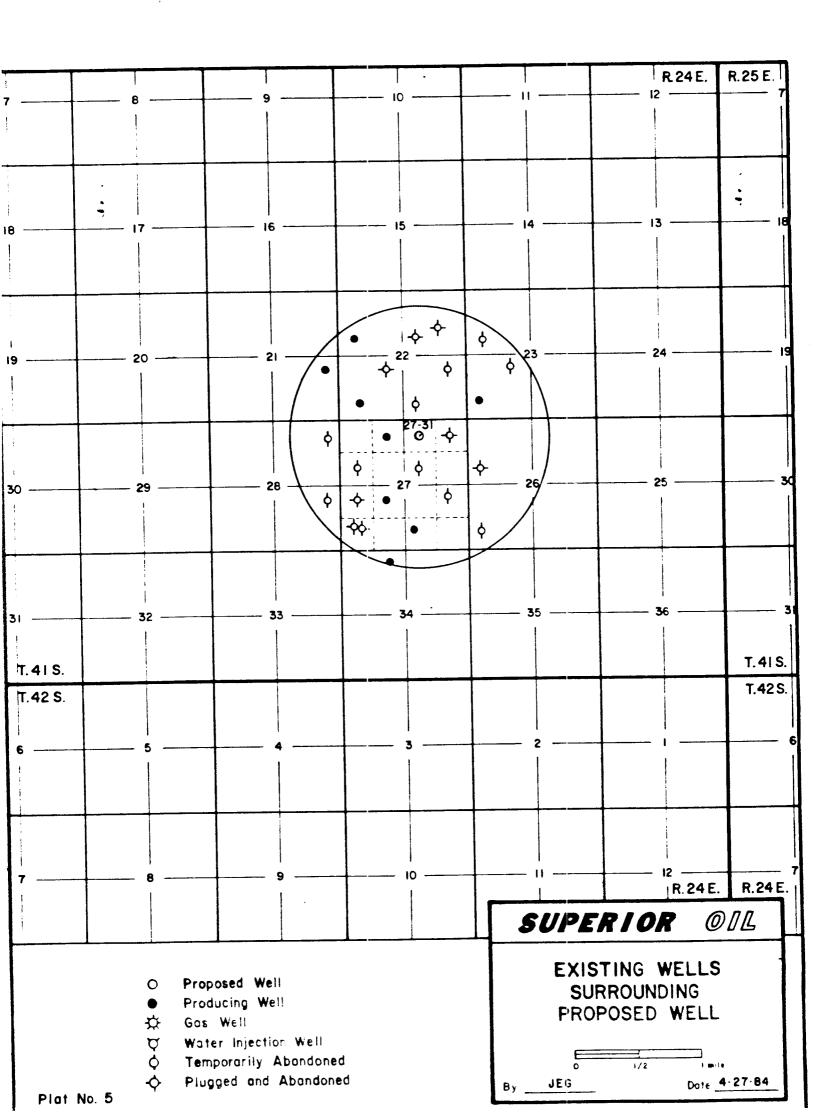
WHE/1h

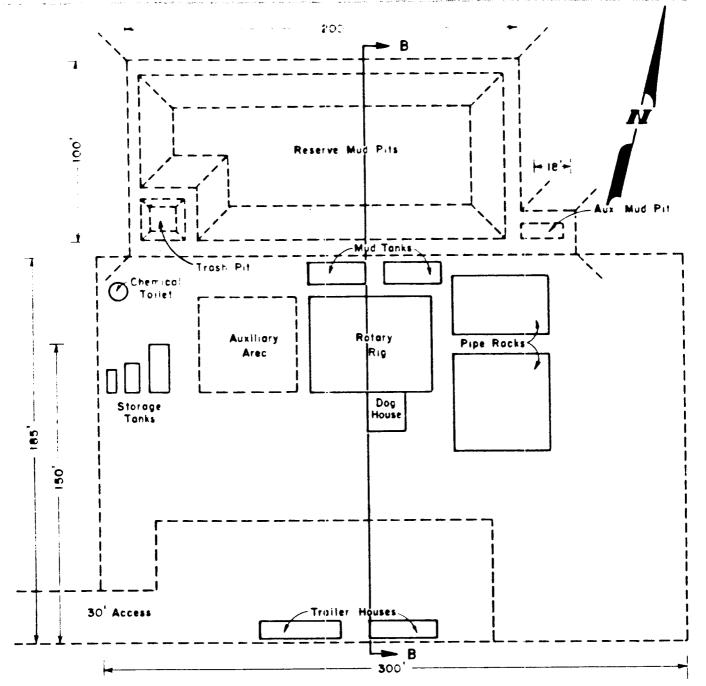






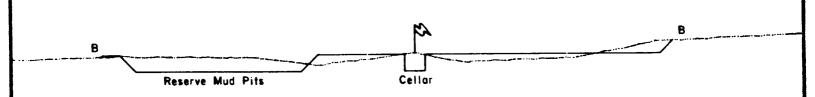






The Drilling Pad will be graded and composted, and composed of mative materials.

PROPOSED WELL SITE W.M.U. 27-31
Original Elev. 4639.3



Original Contour

Reference Point

Graded Proposal

THE SUPERIOR OIL CO.

CONTEST CASPER BUSTRICT
BUCKNERRING BEFARTHER!

RIG LAYOUT & DRILL

PAD CROSS SECTION

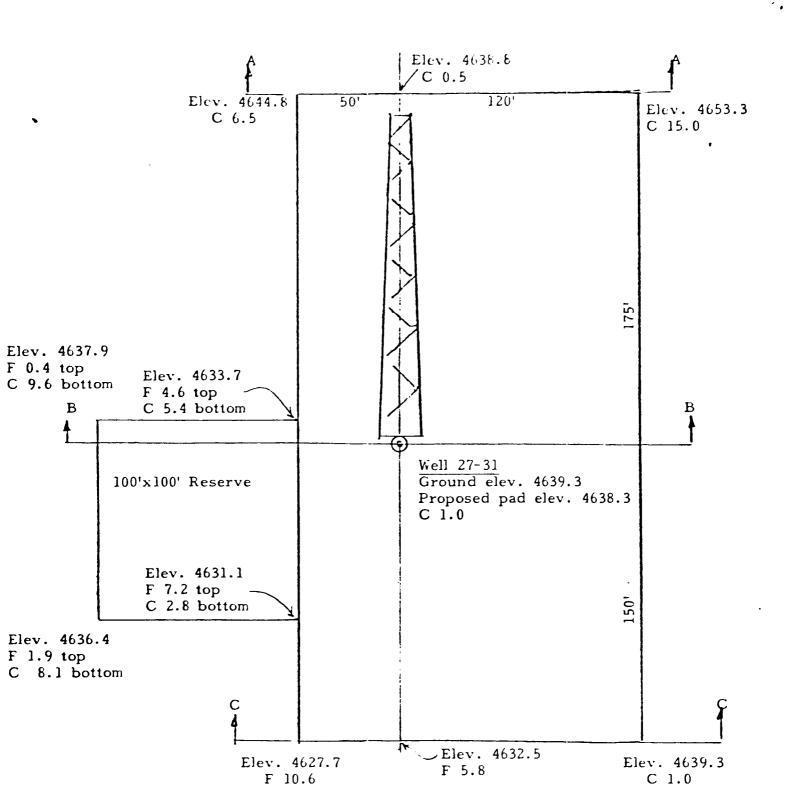
White Mesa Unit No. 27-31

Sec. 27, T.41S. - R.24 E.

San Juan County, Utah

BY JEG

BICALT 1 BO' REVISET



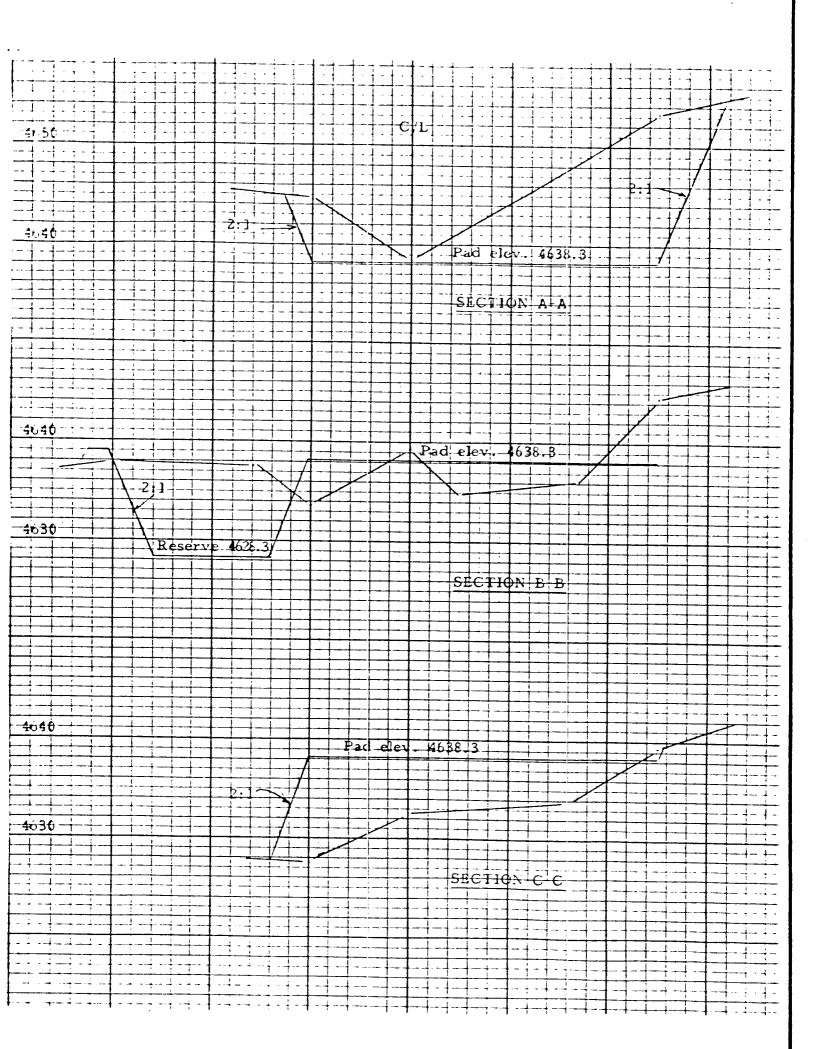
Scale: $1^{11} = 50^{1}$

2

THOMAS Engineering Inc.

25 N. Lindea Cortez, Colorada 565-4496 Superior Oil Company April 10, 1724 Location of Well 27-31, W. & Mesa Unit

SLEET 3 OF 3

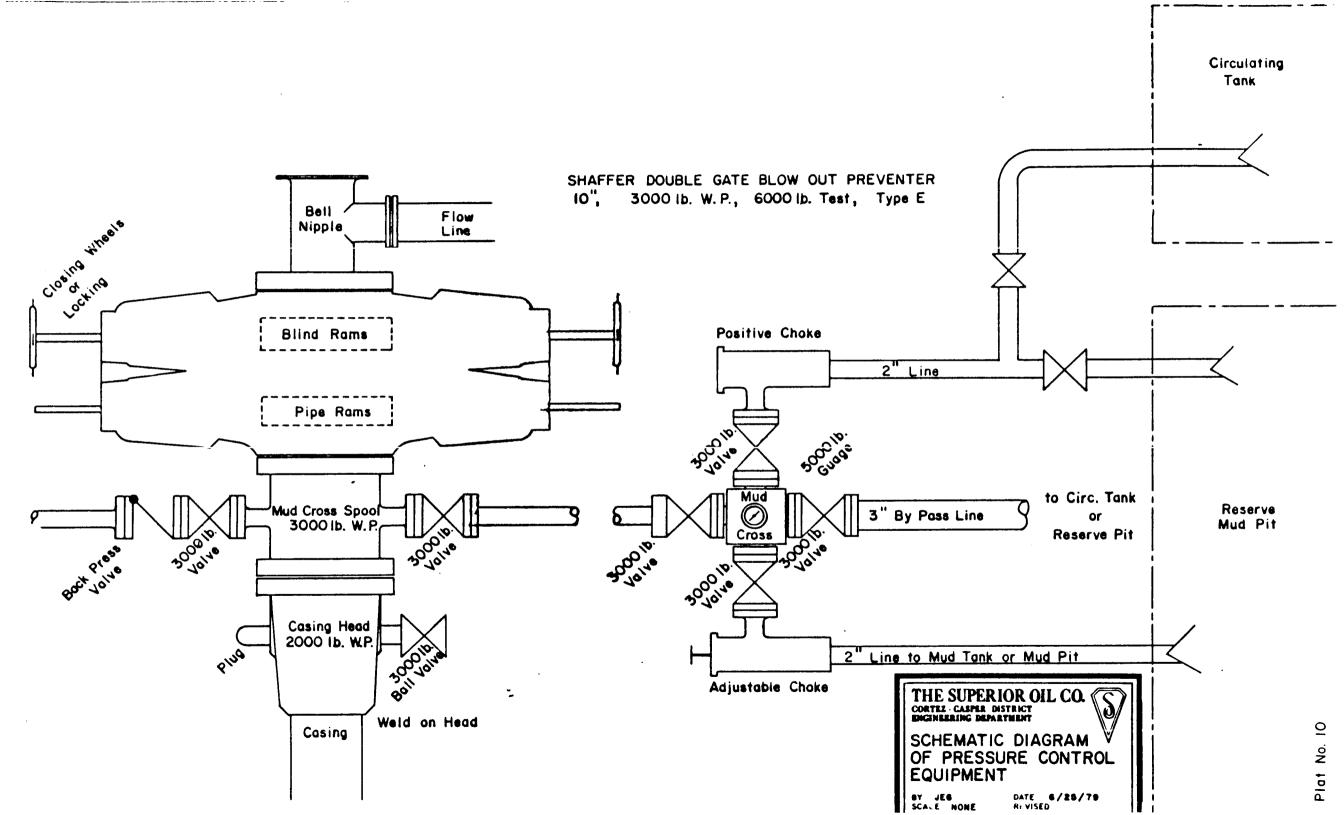


Horizontal scale: $1^{\circ} = 50^{\circ}$ Vertical scale: $1^{\circ} = 10^{\circ}$

THOMAS Engineering Inc.

. ;

215 N. Linden Cortez, Coloredo 565-4496



	DATE 1-31-85
WELL NAME White Mesa Was	
SEC NW NE 27 T 4/5 R	24E COUNTY San Juan
43-037-3/142 API NUMBER	TYPE OF LEASE
CHECK OFF:	
PLAT	BOND NEAREST WELL
LEASE	FIELD POTASH OR OIL SHALE
PROCESSING COMMENTS:	1984 PO.D.
Water x - 84-09-9	
APPROVAL LETTER:	
SPACING: A-3 White Mesa UNIT	CAUSE NO. & DATE
c-3-b	c-3-c
STIPULATIONS:	·
-	



4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 4, 1985

Superior Oil Company P. O. Drawer 'G' Cortez, Colorado 81321

Gentlemen:

Re: Well No. White Mesa Unit #27-31 - NW NE Sec. 27, T. 41S, R. 24E 650' FNL, 2000' FEL - San Juan County, Utah

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

In addition, the following actions are necessary to fully comply with this approval:

- 1. Spudding notification to the Division within 24 hours after drilling operations commence.
- 2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
- 3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
- 4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2 Superior Oil Company Well No. White Mesa Unit #27-31 February 4, 1985

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31142.

Sincerely,

R: J: Firth
Associate Director, Oil & Gas

as Enclosures cc: Branch of Fluid Minerals

Bureau of Indian Affairs

Formerly 9-331)	UNI' STATES DEPARTMENT OF THE INTERIO	8UBMIT IN TRIPLE (Other instructions on re- R verse aide)	Budget Bureau No. 1004-013 Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL NO
	BUREAU OF LAND MANAGEMENT		14-20-603-409
CLININ	RY NOTICES AND REPORTS ON	J WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAM
SUNDI	em for proposals to drill or to deepen or plus back	t to a different reservoir.	
(Do not use this to.	m for proposals to drill or to deepen or plug back se "APPLICATION FOR PERMIT—" for such propo	osals.)	<u>Navajo</u>
			7. UNIT AGREEMENT NAME
WELL X GAS	OTHER		_ White Mesa Unit
NAME OF OPERATOR			8. PARM OR LEASE NAME
	ompany/Mobil Oil Agent		
ADDRESS OF OPERATOR			9. WELL NO.
P.O. Drawer G	Cortez, Co. 81321		27-31
LOCATION OF WELL (Repo See also space 17 below.	ort location clearly and in accordance with any Sta	ite requirements.	10. FIELD AND POOL, OR WILDCAT
At surface			Greater Aneth
			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
650 FNL 2000 FE	L Sec. 27		1
			Sec. 27-T41 S R24E
PERMIT NO.	15. ELEVATIONS (Show whether DF, ET	, GR, etc.)	
	GL 4639		San Juan Utah
	Check Appropriate Box To Indicate Nate	ure of Notice, Report, or C	Other Data
***	ICE OF INTENTION TO:		UBINT REPORT OF:
NOT	ICE OF INTENTION TO:	2022	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	BEPAIRING WELL
PRACTURE TREAT	MULTIPLE COMPLETE	PRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL	CHANGE PLANS	(Other)	of multiple completion on Wall
(Other)		(NOTE: Report results Completion or Recomp	of multiple completion on Well letion Report and Log form.)
·	roposed to cement the long str	ring with a DV tool	to be located at 2900
	bic ft. of cement will be located from the DV too		O and 171 cubic feet
		ACCEPTED OF UTAH OHLIGAS DATE BY:	BY THE STATE DIVISION OF AND MINING
of cement w	Federal approval of this a is required before comme operations.	ACCEPTED OF UTAH OHLIGAS DATE BY:	BY THE STATE DIVISION OF
of cement w	Federal approval of this a is required before comme	ACCEPTED OF UTAH OHLIGAS DATE BY:	BY THE STATE DIVISION OF
of cement w	Federal approval of this a is required before comme operations.	ACCEPTED OF UTAH OHLIGAS DATE BY:	BY THE STATE DIVISION OF

3

*See Instructions on Reverse Side

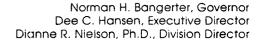
TITLE ___

DATE __

APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

SUNDRY NOTI (Do not use this form for propor Use "APPLICA OIL SAB OTHER E HAME OF OPERATOR SUPERIOR OIL C	UNITED STATES MENT OF HE INTERIO U OF LAND MANAGEMENT ICES AND REPORTS O Lale to drill or to deepen or plug back LITION FOR PERMIT—" for seeb pro-	N WELLS ck to a different reservoir. possis.) gent, MORIL OIL CORP.	Form approved. Budget Buttru No. 1004-0135 Expires August 31, 1985 LEASE DESIGNATION AND SHEIAL NO. 14-20-603-409 6. W INDIAN, ALLOTTER OR TRIDE NAME NAVAJO 7. UNIT AGREEMENT NAME WHITE MESA 8. PARM OR LEADS NAME WHITE MESA 9. WELL NO. 27-31
LOCATION OF WELL (Report location el See also space 17 below.) At surface 650 FNL, 2000		tate requirements.*	GREATER ANETH 11. SEC., T., B., M., OR BLK. AND SEC. 27, T415, R24E
14. PERMIT NO.	15. BLEVATIONS (Show whether DF, 1	it, di, etc.)	12. COUNTY OR PARISE 18. STATE
43-037-31142	4639' GL	· · · · · · · · · · · · · · · · · · ·	SAN JUAN UTA
16. Check Ap	opropriate Box To Indicate No	ature of Notice, Report, or O	Other Data
NOTICE OF INTEN	TION TO:	208220	ENT REPORT OF:
PRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) Cancel AP	ERATIONE (Clearly state all pertinent onally drilled, give subsurface location	Completion or Recompl details, and give pertinent dates, ons and measured and true vertica	abandonment* of multiple completion on Well etion Report and Log form.) including estimated date of starting any depths for all markers and sones perti-
		RECEI\	
		OIVISICU U GAS & AMA	er Oll
18. I hereby certify that the foregoing i	is true and gorrect Cr	. Regulatory Engineer	1/8/86
signedC. Benally	TITLE		DATE
(This space for Federal or State off APPROVED BY CONDITIONS OF APPROVAL, IF	TITLE		DATE

*See Instructions on Reverse Side





355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

March 28, 1986

Superior Oil Company P.O. Drawer "G" Cortez, Colorado 81321

Gentlemen:

RE: Well No. White Mesa Unit 27-31, Sec.27, T.41S, R.24E, San Juan County, Utah, API No. 43-037-31142

Per your request, approval to drill the subject well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

John R. Baza

Petroleum Engineer

sb

cc: BLM - Farmington D. R. Nielson

R. J. Firth

Well file

0278T-19